



Office de la Propriété
Intellectuelle
du Canada

Un organisme
d'Industrie Canada

Canadian
Intellectual Property
Office

An agency of
Industry Canada

CA 2362689 A1 2000/09/14

(21) 2 362 689

(12) DEMANDE DE BREVET CANADIEN
CANADIAN PATENT APPLICATION

(13) A1

(86) Date de dépôt PCT/PCT Filing Date: 2000/03/08
(87) Date publication PCT/PCT Publication Date: 2000/09/14
(85) Entrée phase nationale/National Entry: 2001/09/06
(86) N° demande PCT/PCT Application No.: US 00/05982
(87) N° publication PCT/PCT Publication No.: WO 00/53263
(30) Priorité/Priority: 1999/03/08 (09/264,343) US

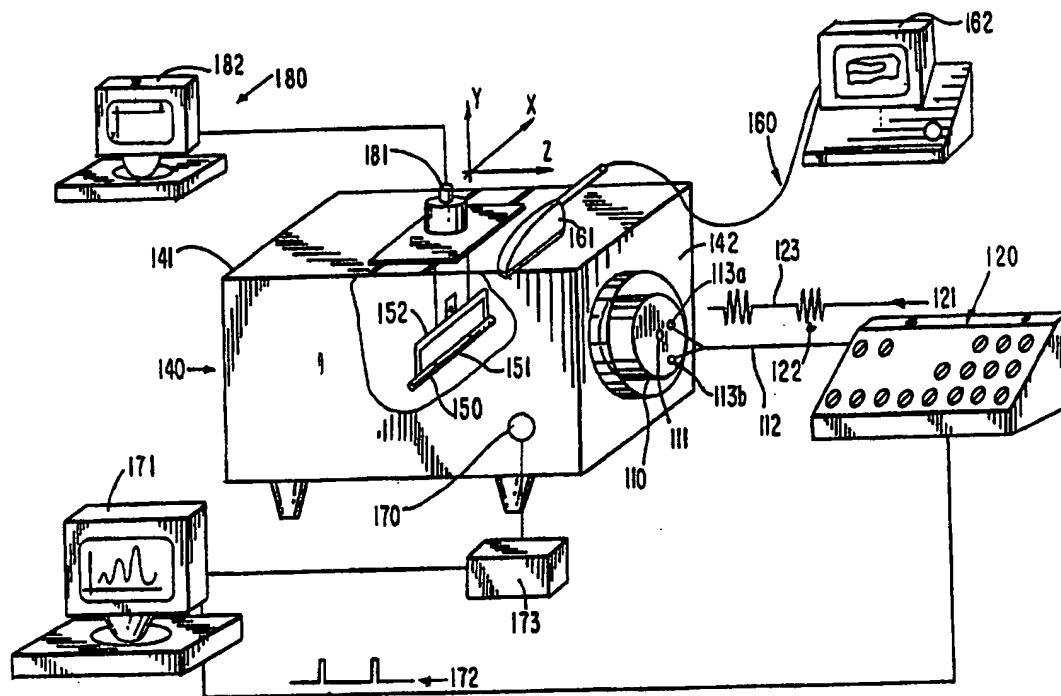
(51) Cl.Int.⁷/Int.Cl.⁷ A61N 7/00

(71) Demandeur/Applicant:
ANGIOSONICS INC., US

(72) Inventeurs/Inventors:
FABIAN, IZHAK, IL;
KERNER, EFIM, IL;
ROSENSCHEIN, URI, IL;
FURMAN, VLADIMIR, IL;
ESHEL, YORAM, IL

(74) Agent: OSLER, HOSKIN & HARCOURT LLP

(54) Titre : PROCEDE ET APPAREIL DE LYSE A TRANSDUCTEUR DOUBLE A ULTRASONS
(54) Title: DUAL TRANSDUCER ULTRASOUND LYSIS METHOD AND APPARATUS



(57) Abrégé/Abstract:

An apparatus and method for the application of ultrasound to a location within the body is provided. A cavitation detection system is included so that the effectiveness, and safety of the ultrasound can be monitored during ultrasound treatment. A non-invasive ultrasound system (100) includes a therapeutic focused ultrasound transducer (110).

Canada

<http://opic.gc.ca> • Ottawa-Hull K1A 0C9 • <http://cipo.gc.ca>

OPIC • CIPQ 191

OPIC



CIPQ

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : A61N 7/00	A1	(11) International Publication Number: WO 00/53263 (43) International Publication Date: 14 September 2000 (14.09.00)
--	-----------	--

(21) International Application Number: PCT/US00/05982

(22) International Filing Date: 8 March 2000 (08.03.00)

(30) Priority Data:
09/264,343 8 March 1999 (08.03.99) US

(71) Applicant: ANGIOSONICS INC. [US/US]; Suite 207, 2200 Gateway Centre Boulevard, Morrisville, NC 27560 (US).

(72) Inventors: ROSENSCHEIN, Uri; 73125 Kefar Daniel (IL). ESHEL, Yoram; Kisufim 38, Tel Aviv (IL). FURMAN, Vladimir; Shapira 726/21, Ashkelon (IL). KERNER, Efim; Kendler 41/19, Rehovot (IL). FABIAN, Izhak; Bar Simantov 4, Yaud (IL).

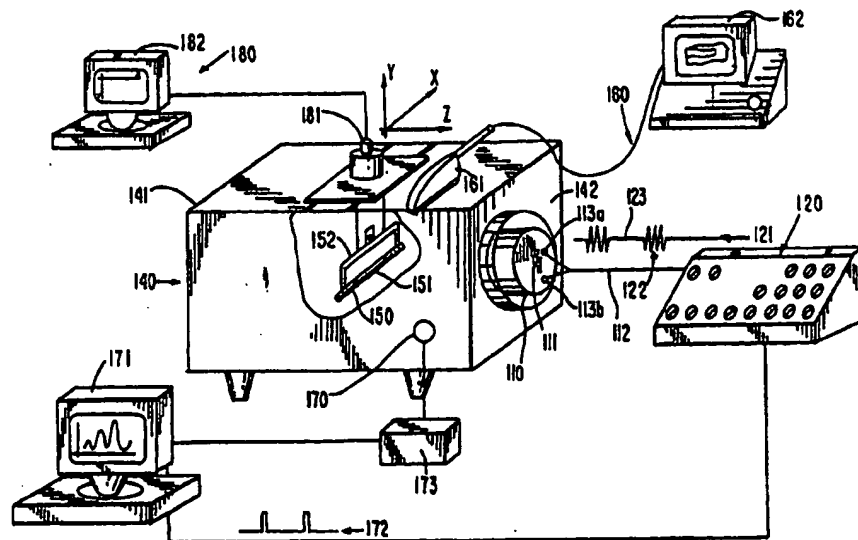
(74) Agents: ROSENTHAL, Lawrence et al.; Stroock & Stroock & Lavan LLP, 180 Maiden Lane, New York, NY 10038 (US).

(81) Designated States: BR, CA, JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

(54) Title: DUAL TRANSDUCER ULTRASOUND LYSIS METHOD AND APPARATUS



(57) Abstract

An apparatus and method for the application of ultrasound to a location within the body is provided. A cavitation detection system is included so that the effectiveness, and safety of the ultrasound can be monitored during ultrasound treatment. A non-invasive ultrasound system (100) includes a therapeutic focused ultrasound transducer (110).